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40 (currently amended): The method according to Claim 39, wherein the lower etch stop layer, the intermediate etch stop layer, and the upper etch stop layer are <u>silicon carbide films each</u> formed according to Claim 30by plasma CVD comprising the steps of:

(A) introducing a raw material gas containing silicon, carbon, and hydrogen, a hydrogen source gas, and an inert gas at a predetermined mixing formulation of the raw material gas, the hydrogen source gas, and the inert gas, into a reaction chamber;

(B) applying radio-frequency power to a reaction zone inside the reaction chamber at the mixing formulation, thereby forming a curable silicon carbide film on the semiconductor substrate; and

(C) continuously applying radio-frequency power to the reaction zone at a mixing formulation wherein the hydrogen source gas flow is reduced from that in step (B), thereby curing the silicon carbide film to give a dielectric constant and leakage current lower than those of the curable silicon carbide film.